



Bachelor in Pharmacy

The 2024-2025 programme is subject to change. It is provided for information purposes only.

Programme mnemonic

BA-PHAR

Studies level

Bachelor

Learning language

french

Schedule

office hours

Studies category / subcategory

Health / Biomedical and pharmaceutical sciences

Campus

Plaine

important academic aspects not only to train a good pharmacist but also to give this pharmacist a solid background which will help him to progress in his profession.

Research internship in the Faculty laboratories is a possibility for students who plan to join a PhD program or the complementary Master program in Industrial Pharmacist.

Many TU are devoted to the basic formation in biological and chemical sciences which will help the students, once they graduated as pharmacists:

- To access and complete the different complementary Masters in pharmaceutical sciences
- To attend to a program of continuing education, a program required by the law and which has become mandatory considering the new molecules constantly developed and which have narrower therapeutic targets.

Our teaching assistants will provide supervision during your seminars, practicals and guidance sessions.

Equipment available to the students :

- Teaching and research laboratoires and a microscopy room
- A library dedicated to pharmaceutical journals and textbooks
- A computer room
- A study room
- An educational pharmacy with a software to manage pharmacies in order to simulate practical situations
- A museum on medicinal plants and phytochemistry

Involvement in the teaching of the Master program in pharmaceutical sciences of numerous professors of the Bachelor program.

Organization of the complete cursus in pharmaceutical sciences which allows collaboration and tutorship among students in the Bachelor and in the Master programs.

Programme objectives

At the end of the program, the students:

- will have acquired basic expertise for the analysis of drugs, their components and their metabolites ;
- will be able to recognize the major targets of drugs and to explain the biomedical basis for their use in therapeutics
- will be able to work in various laboratories (medical, toxicological, food analysis) and various research departments.

Programme's added value

The program is organized by the Faculty of Pharmacy which has extensive collaboration (teaching and research) with the Faculty of Sciences and the Faculty of Medicine.

Many members of our teaching staff (full professors, assistant professors) are pharmacists. Some of them are even involved in a program of permanent training organized by a Belgian group of pharmacists. Our teaching staff is thus well aware of the most

Teaching methods

Theoretical and practical classes as well as seminars and transdisciplinary projects



Succeed in your studies

Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

Succeed

Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

International/Openness

We have had exchange programs with foreign universities for a number of years now. Most exchanges take place in the last part of the Master program.

Job opportunities

If you choose to go on to do a Master in this subject, after 5 years of study, you will obtain a Master in pharmaceutical sciences and be officially recognised as a qualified pharmacist, which will give you access to employment in the following areas.

- in a high-street pharmacist or in a hospital

- in an analytical laboratory (biological, toxicological, food) or a research laboratory
- in the pharmaceutical industry
- in teaching, public administration, buying and selling pharmaceuticals ...

NB: additional qualifications are required in some of these fields (lasting from between 1 to 5 years).

You could also go into research in any field relating to sciences: chemistry, biology, pharmacology, medicine, food and nutrition, etc.

The purpose of the Bachelor program is not to give access to a job but rather to give access to the subsequent 2-part Master program in pharmaceutical sciences.

However, graduated students can:

- Either register in other Master programs (directly or with additional courses)
- Either work in the pharmaceutical industry or in other laboratories

Contacts

 <http://www.ulb.ac.be/facs/pharma/index.html>

Jury President

Véronique FONTAINE

Jury Secretaries

Franck MEYER (bloc 1) and François DUFRASNE (bloc 2 & 3)



Bachelor in Pharmacy

Teaching units (TU) of the first part of the cursus aim to acquire basic scientific knowledge with a pharmaceutical specificity in mind. The TU « General Biology » deals with aspects relative to cytology, histology, parasitology. The TU « Plant Biology » is concerned with the evolution of plant kingdom, and the classification of plants with medicinal properties. The TU « Fundamentals of Anatomy » gives the future pharmacists basic knowledge on the structure and topology of human body and includes elements of embryology. The TU « General Chemistry » deals with substances at a molecular level which is a requirement to better explain the progress of a chemical reaction. The TU « Organic Chemistry » explains the mechanisms of the reactions involved in the synthesis of active ingredients of drugs. To improve the rate of success of first-year student, learning seminars are organized (test guidance, language skills, literature search, computer science). The TU « Pharmacy and Society » deals with themes such as the history of pharmacy, the journey of drugs, the access of patients to care and medications, economical problems of health care and a few major ethical and social problems in relation to medical drugs.

The aim of the TU of the second and third parts of the program is to provide the students the fundamentals of biochemistry, biology and physiology. These elements are required to the comprehension of pathological processes in man (infection, metabolic disorders, tumors,...) studied in the last part of the program. Other TU introduce the students to the methods and techniques routinely used to analyze drugs. Some TU are devoted to the study and the quality control of drugs and of their components. These TU give the students the theoretical and practical basis required for their future study of the mode of action and of the analysis of therapeutic agents. At the end of the program, transdisciplinary practicals are organized in order to help the students to integrate their recent biological and chemical assets through problem-based learning.

Bloc 1 | BA-PHAR

Cours obligatoires

BIOL-J101	Biologie animale Hassan JIJAKLI (Coordinator) ⌚ 5 credits [lecture: 50h, tutorial classes: 3h, practical work: 11h] 📅 first and second terms 💬 French
BIOL-J102	Biologie végétale Nausicaa NORET (Coordinator) ⌚ 5 credits [lecture: 36h, practical work: 12h, field trips: 12h] 📅 first term 💬 French
CHIM-J101	Chimie générale Véronique CABIAUX (Coordinator) ⌚ 10 credits [lecture: 60h, tutorial classes: 48h] 📅 first and second terms 💬 French
CHIM-J102	Chimie organique Franck MEYER (Coordinator) ⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 second term 💬 French
CHIM-J103	Chimie expérimentale Franck MEYER (Coordinator) and Véronique CABIAUX ⌚ 5 credits [practical work: 48h] 📅 first and second terms 💬 French
MATH-F113	Mathématiques Špela SPENKO (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 first term
MEDI-J100	Eléments d'anatomie et d'embryologie humaine Véronique FEIPEL (Coordinator), Hassan JIJAKLI and Olivier Snoeck ⌚ 5 credits [lecture: 32h, tutorial classes: 6h, practical work: 4h, field trips: 4h] 📅 first term 💬 French
PHYS-F104	Physique 1 Barbara CLERBAUX (Coordinator), Sébastien CLESSE and Michele SFERRAZZA ⌚ 10 credits [lecture: 72h, tutorial classes: 36h, field trips: 4h] 📅 academic year 💬 French
TRAN-J103	Pharmacie et société et anglais scientifique Franck MEYER (Coordinator), Kelsey HULL and Pierre VAN ANTWERPEN ⌚ 5 credits [lecture: 12h, language practice: 24h, personal assignments: 24h] 📅 second term 💬 French
TRAN-J111	Accueil et initiation à la méthodologie universitaire Nathalie WAUTHOZ (Coordinator) ⌚ 5 credits [tutorial classes: 38h, workshop: 8h] 📅 first term 💬 French

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Bloc 2 | BA-PHAR

Cours obligatoires

BIOL-F208	Biochimie et physiologie de la cellule Vincent RAUSSENS (Coordinator), Véronique KRUYSS and Maud MARTIN ⌚ 5 credits [lecture: 60h] 📅 first term 🗨 French
BIOL-J201	Introduction à l'étude des plantes médicinales Caroline STEVIGNY (Coordinator) ⌚ 5 credits [lecture: 18h, practical work: 30h, field trips: 12h] 📅 second term 🗨 French
BMOL-J201	Biologie moléculaire David VERMIJLEN (Coordinator) ⌚ 5 credits [lecture: 42h] 📅 first term 🗨 French
CHIM-J201	Chimie organique pharmaceutique François DUFRASNE (Coordinator) ⌚ 5 credits [lecture: 36h, tutorial classes: 12h] 📅 second term 🗨 French
CHIM-J202	Spectroscopies moléculaires et spectrométrie de masse Pierre VAN ANTWERPEN (Coordinator), Cédric Delporte and Michel LUHMER ⌚ 5 credits [lecture: 12h, tutorial classes: 18h, workshop: 6h, personal assignments: 24h] 📅 second term 🗨 French
MEDI-J201	Physiologie humaine Stéphanie POCHET (Coordinator) ⌚ 5 credits [lecture: 60h] 📅 second term 🗨 French
PHAR-J210	Analyse Pharmaceutique, méthodes volumétriques Cédric Delporte (Coordinator) ⌚ 5 credits [lecture: 30h, tutorial classes: 10h, practical work: 40h] 📅 second term 🗨 French
PHAR-J230	Analyse Pharmaceutique, méthodes Physicochimiques Nathalie WAUTHOZ (Coordinator) ⌚ 5 credits [lecture: 30h, tutorial classes: 6h, practical work: 32h] 📅 first term 🗨 French
STAT-J201	Statistiques appliquées aux sciences pharmaceutiques Kris De Braekeleer (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 28h] 📅 first term 🗨 French
TRAN-J201	Scientific English and transdisciplinary projects Franck MEYER (Coordinator), François DUFRASNE, Véronique FONTAINE, Kelsey HULL, Hassan JIJAKLI, Stéphanie POCHET, Caroline STEVIGNY, David VERMIJLEN and Nathalie WAUTHOZ ⌚ 5 credits [lecture: 12h, tutorial classes: 24h, personal assignments: 24h] 📅 first and second terms 🗨 English/French
TRAN-J211	Approche pratique des sciences du vivant David VERMIJLEN (Coordinator), Cédric Delporte and Stéphanie POCHET ⌚ 10 credits [practical work: 88h, seminars: 20h, personal assignments: 15h] 📅 academic year 🗨 French

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Bloc 3 | BA-PHAR

Cours obligatoires

BIOL-J301	Microbiologie générale, Hygiène, Immunologie Véronique FONTAINE (Coordinator) and David VERMIJLEN ⌚ 5 credits [lecture: 50h] 📅 first term 🗨 French
BIOL-J302	Microbiologie médicale Véronique FONTAINE (Coordinator) ⌚ 5 credits [lecture: 22h, practical work: 42h] 📅 first term 🗨 French
MEDI-J301	Physiopathologie, éléments de pathologie humaine et épidémiologie Véronique MATHIEU (Coordinator) and Kris De Braekeleer ⌚ 5 credits [lecture: 44h, tutorial classes: 4h] 📅 first term 🗨 French
PHAR-J301	Pharmacologie générale et éléments de pharmacocinétique Stéphanie POCHET (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, personal assignments: 12h] 📅 first term 🗨 French
PHAR-J302	Analyse pharmaceutique : méthodes instrumentales et contrôle de qualité Cédric Delporte (Coordinator) ⌚ 5 credits [lecture: 36h, practical work: 36h] 📅 second term 🗨 French
PHAR-J303	Etude des médicaments : Pharmacognosie et médicaments d'origine naturelle Caroline STEVIGNY (Coordinator) ⌚ 5 credits [lecture: 42h, practical work: 18h] 📅 first term 🗨 French
PHAR-J304	Etude des médicaments : médicaments inorganiques et radiopharmacie Jehan Waeytens (Coordinator), Pierre VAN ANTWERPEN and Zéna WIMANA ⌚ 5 credits [lecture: 36h, personal assignments: 12h] 📅 second term 🗨 French
PHAR-J305	Etude des médicaments : médicaments organiques 1 et biologiques François DUFRASNE (Coordinator) and Cédric Delporte ⌚ 5 credits [lecture: 60h] 📅 second term 🗨 French
TRAN-J311	Projet transdisciplinaire en analyse des médicaments François DUFRASNE (Coordinator), Cédric Delporte, Caroline STEVIGNY and Jehan Waeytens ⌚ 10 credits [tutorial classes: 28h, practical work: 74h, personal assignments: 18h] 📅 academic year 🗨 French
TRAN-J312	Pratique officinale Florence SOUARD (Coordinator), François DUFRASNE, Caroline STEVIGNY and Pierre VAN ANTWERPEN ⌚ 10 credits [tutorial classes: 24h, practical work: 2h, work placement: 78h, personal assignments: 12h] 📅 first and second terms 🗨 French